

SYSTEM AND METHOD FOR INTEGRATED MULTI-USE OPTICAL ALIGNMENT

ABSTRACT OF THE DISCLOSURE

5 [0050] An optical alignment system for use in a semiconductor processing system is provided. The optical alignment system includes a wafer chuck that has an alignment feature integrated into the top surface of the wafer chuck. In addition, a beam-forming system, which is capable of emitting an optical signal onto the alignment feature, is disposed above the wafer chuck. Also, a detector is included that can detect an amplitude of the optical signal emitted onto the alignment
10 feature. In one aspect, the alignment feature can be a reflective alignment feature that reflects a portion of the optical signal back to the beam detector. In additional aspect, the alignment feature can be a transmittance alignment feature capable of allowing a portion of the optical signal to pass through the wafer chuck to the detector. In this aspect, the detector can be disposed below the wafer chuck.